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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/694,027	10/27/2003	Claire Hartmann-Thompson	MIC35 P-333	3883
277 7590 07/31/2008 PRICE HENEVELD COOPER DEWITT & LITTON, LLP 695 KENMOOR, S.E.			EXAMINER	
			SIEFKE, SAMUEL P	
P O BOX 2567 GRAND RAPIDS, MI 49501		ART UNIT	PAPER NUMBER	
			1797	
			MAIL DATE	DELIVERY MODE
			07/31/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application No.	Applicant(s)			
		10/694,027	HARTMANN-THOMPSON, CLAIRE			
		Examiner	Art Unit			
		SAM P. SIEFKE	1797			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) 又	⊠ Responsive to communication(s) filed on <u>21 April 2008</u> .					
· ·		action is non-final.				
′=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
<i>ا</i> ل	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
	Claim(s) <u>1-10</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
		William Consideration.				
· · · · · · · · · · · · · · · · · · ·	5) Claim(s) is/are allowed.					
=	6) Claim(s) 1-10 is/are rejected.					
-	Claim(s) is/are objected to.					
8)[Claim(s) are subject to restriction and/or	r election requirement.				
Applicati	on Papers					
9) 🔲 .	The specification is objected to by the Examine	r.				
10) 🔲	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some coll None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notic 3) Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Zheng "X-ray Characterizations of Polyethylene Polyhedral Oligomeric Silsesquixane Copolymers" 10/24/01.

Zheng discloses the use of polyhedral oligomeric silsequioxane (POSS) nanoparticles polymerized with copolymers (polymer matrix, polysiloxane) to create new stable polymer. The copolymers employed are polysiloxane. POSS containing copolymers have higher mechanical and thermal properties that the polymers without POSS side units (page 2375). The instant application specification states the polymer matrix is a polysiloxane (page 6). The instant application specification states the preferred solid filler particles for use in the invention include polyhedral oligomeric silsesquioxanes (POSS) and the POSS are dispersed in polysiloxane. Zheng discloses each of these limitations.

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Applicant's arguments filed 4/21/08 have been fully considered but they are not persuasive. Applicant argues, "The claims are not directed to copolymers in which the polymeric backbone is covalently bonded to a solid particulate filler, but rather to a composite material in which a solid particulate filler is physically dispersed within a polymer matrix. It is well known in the art that solid particulate filler that is dispersed in a polymer matrix is not covalently bonded to the polymer matrix, and that such composite is not the same as or equivalent to a copolymer as disclosed by Zheng." The Examiner points out that the claims are read with the broadest interpenetration in light of the specification, and no where in the the specification does it state that a solid particulate filler that is dispersed in a polymer matrix is not covalently bonded to the polymer matrix. Further, the Examiner contends that this is well known in the art.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SAM P. SIEFKE whose telephone number is (571)272-1262. The examiner can normally be reached on M-F 7:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on 571-272-1700. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Samuel P Siefke/ Primary Examiner, Art Unit 1797

July 29, 2008